Amendments In the Claims

Applicants respectfully request to cancel and add claims as indicated below:

1. – 115.   Cancelled.

116.   (New) A method comprising:

selecting a set of instances from a set of data;

determining a number of related records in a set of related records of a table, wherein

    each record of the set of related records is related to one instance of the set of

        instances; and

comparing the number of related records and a number of instances in the set of instances

    prior to generating a set of select statements to select the set of related records

    from the table.

117.   (New) The method of claim 116 wherein

if the comparing indicates that the number of instances is much larger,

    generating the set of select statements to include one select statement to select the

        set of related records from the table, wherein

        the one select statement includes a clause to select a corresponding record

            for each instance of a set comprising a maximum number of

            instances of the set of instances, and

        the maximum number of instances is determined by a maximum number

            of clauses in the one select statement.

118.   (New) The method of claim 117 wherein

the number of instances is much larger when a ratio between the number of instances and

    the number of related records is larger than a specified value.

119.   (New) The method of claim 118 wherein

the specified value is 7.

120. (New) The method of claim 117 further comprising:

executing the one select statement;

after executing the one select statement, determining a set of respective operations to

perform on the table, wherein

each respective operation of the set of respective operations affects a respective

record in the table, and

each respective record corresponds to one instance of the set comprising the

maximum number of instances; and

generating a set of SQL statements to perform each respective operation of the set of

respective operations, wherein

the set of SQL statements does not join the table to another table.

121. (New) The method of claim 120 wherein

each respective operation is one of

an update operation to update an existing record in the table and

an insert operation to insert a new record in the table.

122. (New) The method of claim 121 further comprising:

executing the set of SQL statements to provide the respective record in the table for each

instance of the set comprising the maximum number of instances.

123. (New) The method of claim 121 wherein

the generating the one select statement comprises

constructing a select clause to select a record from a plurality of records in the

table, wherein

the record has identifying data for one instance of the set comprising the

maximum number of instances; and

concatenating to the select clause a respective OR clause to select a

subsequent record for each subsequent instance of the set

comprising the maximum number of instances excluding

the one instance.

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124. (New) The method of claim 121 wherein
the determining the respective operation for a first instance of the set comprising the

maximum number of instances comprises:

comparing respective data in each respective record of a plurality of records in the

table to identifying data for the first instance; and

if the identifying data for the first instance matches the respective data of a

first record of the plurality of records,

determining that the respective operation for the first instance is the

update operation;

and

if the identifying data for the first instance does not match the respective

data of any record of the plurality of records,

determining that the respective operation for the first instance is the

insert operation.

125. (New) The method of claim 124 wherein
the generating the set of SQL statements further comprises

if the respective operation is the update operation,

adding an update statement to the set of SQL statements to update the first

record using instance data from the first instance.

126. (New) The method of claim 124 wherein
the generating the set of SQL statements further comprises

if the respective operation is the insert operation,

adding an insert statement to the set of SQL statements to insert a second

record into the table using instance data from the first instance.

127. (New) The method of claim 116 wherein
if the comparing indicates that the number of instances is not much larger,

generating the set of select statements to include one select statement for each

instance of the set of instances;

executing each statement of the set of select statements prior to generating a

subsequent select statement of the set of select statements.

128.   (New) The method of claim 116 wherein

the determining the number of related records is performed without selecting the set of

related records from the table.

129.   (New) A system comprising:

selecting means for selecting a set of instances from a set of data;

determining means for determining a number of related records in a set of related records

of a table, wherein

each record of the set of related records is related to one instance of the set of

instances; and

comparing means for comparing the number of related records and a number of instances

in the set of instances prior to generating a set of select statements to select the set

of related records from the table.

130.   (New) The system of claim 129 further comprising:

generating means for generating the set of select statements to include one select

statement to select the set of related records from the table if the comparing

indicates that the number of instances is much larger, wherein

the one select statement includes a clause to select a corresponding record for each

instance of a set comprising a maximum number of instances of the set of

instances, and

the maximum number of instances is determined by a maximum number of

clauses in the one select statement.

131.   (New) The system of claim 130 further comprising:

executing means for executing the one select statement;

second determining means for determining a set of respective operations to perform on

the table after executing the one select statement, wherein

each respective operation of the set of respective operations affects a respective

record in the table, and

each respective record corresponds to one instance of the set comprising the

maximum number of instances; and

second generating means for generating a set of SQL statements to perform each

respective operation of the set of respective operations, wherein

the set of SQL statements does not join the table to another table.

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132.   (New) The system of claim 131 wherein
each respective operation is one of

an update operation to update an existing record in the table and

an insert operation to insert a new record in the table.

133.   (New) A computer-readable medium comprising:
selecting instructions configured to select a set of instances from a set of data;
determining instructions configured to determine a number of related records in a set of

related records of a table, wherein

each record of the set of related records is related to one instance of the set of

instances; and

comparing instructions configured to compare the number of related records and a

number of instances in the set of instances prior to generating a set of select

statements to select the set of related records from the table.

134.   (New) The computer-readable medium of claim 133 further comprising:
generating instructions configured to generate the set of select statements to include one

select statement to select the set of related records from the table if the comparing

indicates that the number of instances is much larger, wherein

the one select statement includes a clause to select a corresponding record for each

instance of a set comprising a maximum number of instances of the set of

instances, and

the maximum number of instances is determined by a maximum number of

clauses in the one select statement.

135.   (New) The computer-readable medium of claim 134 further comprising:
executing instructions configured to execute the one select statement;
second determining instructions configured to determine a set of respective operations to

perform on the table after executing the one select statement, wherein

each respective operation of the set of respective operations affects a respective

record in the table, and

each respective record corresponds to one instance of the set comprising the

maximum number of instances; and

second generating instructions configured to generate a set of SQL statements to perform

each respective operation of the set of respective operations, wherein

the set of SQL statements does not join the table to another table.

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136.   (New) The computer-readable medium of claim 135 wherein each respective operation is one of

an update operation to update an existing record in the table and

an insert operation to insert a new record in the table.

137.   (New) A computer system comprising:

a processor to execute instructions; and

a memory to store the instructions, wherein

the memory is coupled to the processor, and

the instructions comprise:

selecting instructions configured to select a set of instances from a set of data;

determining instructions configured to determine a number of related records in a set of related records of a table, wherein

each record of the set of related records is related to one instance of the set of instances; and

comparing instructions configured to compare the number of related records and a number of instances in the set of instances prior to generating a set of select statements to select the set of related records from the table.

138.   (New) The computer system of claim 137 wherein the instructions further comprise:

generating instructions configured to generate the set of select statements to include one

select statement to select the set of related records from the table if the comparing indicates that the number of instances is much larger, wherein

the one select statement includes a clause to select a corresponding record for each instance of a set comprising a maximum number of instances of the set of instances, and

the maximum number of instances is determined by a maximum number of clauses in the one select statement.

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139.   (New) The computer system of claim 138 wherein the instructions further comprise:

executing instructions configured to execute the one select statement;

second determining instructions configured to determine a set of respective operations to

perform on the table after executing the one select statement, wherein

each respective operation of the set of respective operations affects a respective

record in the table, and

each respective record corresponds to one instance of the set comprising the

maximum number of instances; and

second generating instructions configured to generate a set of SQL statements to perform

each respective operation of the set of respective operations, wherein

the set of SQL statements does not join the table to another table.

140.   (New) The computer system of claim 139 wherein

each respective operation is one of

an update operation to update an existing record in the table and

an insert operation to insert a new record in the table.

141.   (New) A system comprising:

a selecting module configured to select a set of instances from a set of data;

a determining module configured to determine a number of related records in a set of

related records of a table, wherein

each record of the set of related records is related to one instance of the set of

instances; and

a comparing module configured to compare the number of related records and a number

of instances in the set of instances prior to generating a set of select statements to

select the set of related records from the table.

142. (New) The system of claim 141 further comprising:

a generating module configured to generate the set of select statements to include one

select statement to select the set of related records from the table if the comparing

indicates that the number of instances is much larger, wherein

the one select statement includes a clause to select a corresponding record for each

instance of a set comprising a maximum number of instances of the set of

instances, and

the maximum number of instances is determined by a maximum number of

clauses in the one select statement.

143. (New) The system of claim 142 further comprising:

an executing module configured to execute the one select statement;

a second determining module configured to determine a set of respective operations to

perform on the table after executing the one select statement, wherein

each respective operation of the set of respective operations affects a respective

record in the table, and

each respective record corresponds to one instance of the set comprising the

maximum number of instances; and

a second generating module configured to generate a set of SQL statements to perform

each respective operation of the set of respective operations, wherein

the set of SQL statements does not join the table to another table.

144. (New) The system of claim 143 wherein

each respective operation is one of

an update operation to update an existing record in the table and

an insert operation to insert a new record in the table.